Blu-Ray Disc Player
Instruction Manual

Read all of the instructions before using this bluray player and keep the instruction manual in a safe place for future reference.

Model No.: K-BD5106

Contents

Important Notes	**1**
Safety and important notice	1
Disposal of your old product and batteries	1
Trademark notice	1
Product Introduction	**2-4**
Feature highlights	2
Region codes	2
Accessories	2
Product Overview	3
Remote control	4
Connection	**5-6**
Connection	5
Connect video/audio cables	5
Route audio to other devices	6
Connect network	6
Connect USB device	6
Connect power	6
Getting Started	**7**
Prepare the remote control	7
Find the correct viewing channel	7
Use the Setup menu	7
Navigate the menu	7
Select menu display language	7
Play	**8-10**
Play a disc	8
Play video	8
Play music	9
Play photo	10
Settings	**11-13**
Basic operation for the menu	11
General Setting	11
Display Setting	12
Audio Setting	13
System Information	13
Additional Information	**14**
Update software	14
Care	14
Specifications	14
Troubleshooting	**15**
Main unit	15
Picture	15
Sound	15
Play	15
Glossary	**16**

Safety and important notice

Warning

- Risk of overheating! Never install the product in a confined space. Always leave a space of at least 4 inches around the product for ventilation. Ensure curtains or other objects never cover the ventilation slots on the product.
- Never place the product, remote control or batteries near naked flames or other heat sources, including direct sunlight.
- Only use this product indoors. Keep this product away from water, moisture and liquid-filled objects.
- Never place this product on other electrical equipment. Keep away from this product during lightning storms.
- Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- Visible and invisible laser radiation when open. Avoid exposure to beam.

This product complies with the radio interference requirements of the European Community.
This product complies with the requirements of the following directives and guidelines: 2004/108/EC, 2006/95/EC

Disposal of your old product and batteries

Your product is designed and manufactured with high quality materials and components, which can be recycled and reused.

When this crossed-out wheeled bin symbol is attached to a product it means that the product is covered by the European Directive 2002/96/EC.
Please inform yourself about the local separate collection system for electrical and electronic products.
Please act according to your local rules and do not dispose of your old products with your normal household waste.
Correct disposal of your old product helps to prevent potential negative consequences for the environment and human health.

Your product contains batteries covered by the European Directive 2006/66/EC, which cannot be disposed with normal household waste.
Please inform yourself about the local rules on separate collection of batteries because correct disposal helps to prevent negative consequences for the environmental and human health.

Trademark notice

'DVD Video' is a trademark of DVD Format/Logo Licensing Corporation.

'Blu-ray Disc' and 'Blu-ray Disc' logo are trademarks.

Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby laboratories.

Manufactured under license under U.S. Patent#'s:5,451,942; 5,956,674; 5,974, 380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS is a registered trademarks & the DTS logos and Symbol are trademarks of DTS, Inc. ©1996-2008 DTS, Inc. All Rights Reserved.

Java and all other Java trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and/or other countries.

BONUSVIEW™

'BD LIVE' and 'BONUSVIEW are trademarks of Blu-ray Disc Association.

CLASS 1
LASER PRODUCT

Feature highlights

Note

- The product does not guarantee 100% interoperability with all HDMI CEC devices.

High-Definition entertainment
Watch high-definition content disc with HDTV (High Definition Television). Connect it through a high speed HDMI cable (1.3 or category 2). You can enjoy excellent picture quality up to 1080p resolution with the frame rate of 24 frames per second with progressive scan output.

BONUSVIEW/PIP (Picture-in-Picture)
This is a new function of BD-Video that plays the primary video and secondary video simultaneously. Blu-ray players with Final Standard Profile or Profile 1.1 specs can play Bonus View features.

BD-Live
Connect this product to the movie studios website via the LAN port to access a variety of up-to-date content (e.g. refreshed previews and exclusive special features). You can also enjoy next generation possibilities, such as ringtone/wallpaper downloads, peer-to-peer interactions, live events and gaming activities.

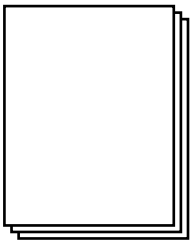
Upscale DVD for enhanced picture quality
Watch the discs in the highest picture quality available for the HDTV. Video upscaling increases the resolution of standard definition disc to high definition up to 1080p over an HDMI connection. A highly detailed picture and increased sharpness delivers a more true-to-life picture.

Region codes

You can play discs with the following region codes.

Region code DVD		BD	Country
ALL	2	B	Europe, United Kingdom
ALL	3	A	Asia Pacific, Taiwan, Korea
ALL	4	A	Latin America
ALL	4	B	Australia, New Zealand
ALL	5	C	Russia, India
ALL	6	C	China

Accessories


Instruction Manual

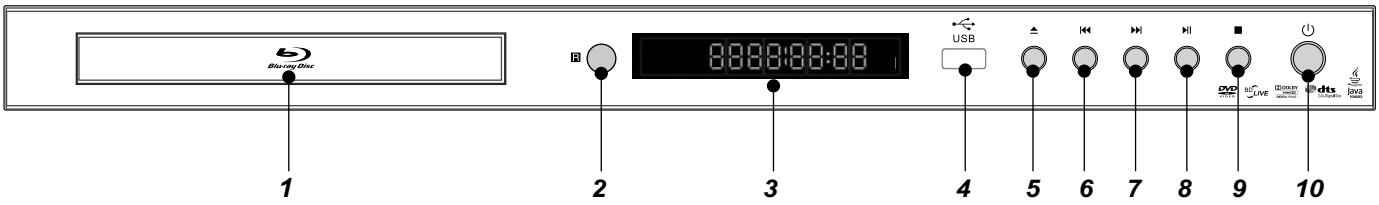
AV Cable

Remote Control

Batteries

Product Overview

Main unit



1. Disc compartment

2. IR sensor

• Point the remote control at the IR sensor.

3. Display panel

4. USB jack

• Connect to USB device.

5. ⏏

• Open or close the disc compartment.

6. ⏮

• Play the previous program.

7. ⏭

• Play the next program.

8. ⏯

• Start(resume)/pause play.

9. ■

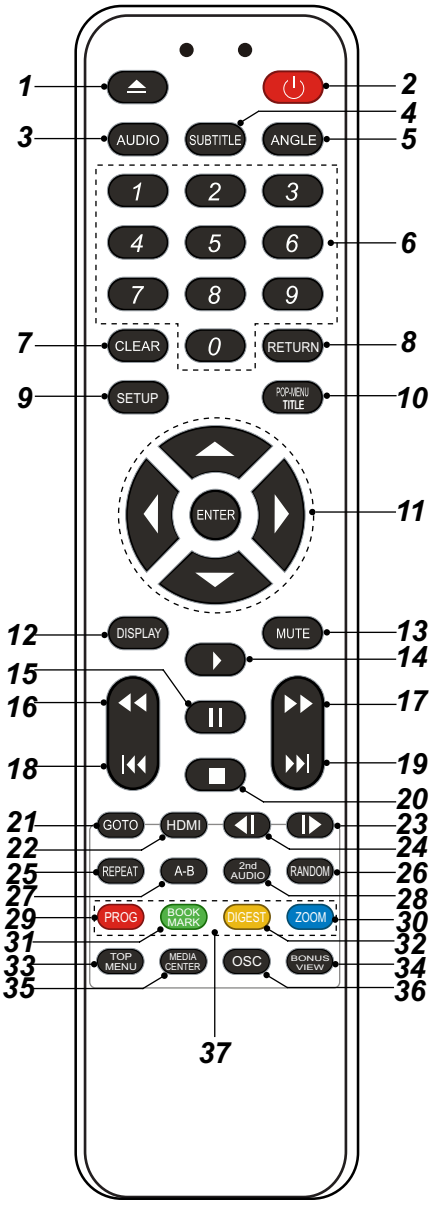
• Stop play.

10. ⏻

• Turn on this product or switch to standby mode.

Front panel display	Description
LOAD	Loading a disc.
UNK DISC	The disc is not supported.
BDMV	Blu-ray disc is recognized.
SETUP	Setup menu is displayed
UPGRADE	Software upgrade is in progress.

Remote control



1. ⏏
 • Open or close the disc compartment.
2. ⏻
 • Turn on this product or switch to standby mode.
3. **AUDIO**
 • Select an audio language or channel on a disc.
4. **SUBTITLE**
 • Select a subtitle language on a disc.
5. **ANGLE**
 • Some BD and DVDs are filmed with more than one camera angle. During playback of such a disk,pressing this button will allow you to switch camera angles.
6. **Alphanumeric buttons**
 • Select an item to play.
7. **CLEAR**
 • To clear an entry.
8. **RETURN**
 • Return to a previous display menu.
9. **SETUP**
 • Access the SETUP menu.
10. **POP-MENU/TITLE**
 • **BD:** Display the top menu.
 • **DVD:** Display the title menu.
11. **Menu Navigation Keys**
 • Navigate through the menus.
12. **DISPLAY**
 • Display the current status or the disc information.
13. **MUTE**
 • Press to mute the sound and press again to restore.
14. **PLAY** ▶
 • Start or resume play.
15. **PAUSE** ⏸
 • Pause play.
16/17. **FAST REVERSE / FAST FORWARD** ◀◀ ▶▶
 • Search backward or forward.
18/19. **PREV / NEXT** ⏮ ⏭
 • Skip to the previous or next title, chapter,or track.
20. **STOP** ■
 • Stop play.
21. **GOTO**
 • Jump to a user specified time during playback.
22. **HDMI**
 • Press to change the display mode of the screen.
23/24. **SLOW REVERSE / SLOW FORWARD** ◀❙ ❙▶
 • Press this button will cause the video to slow reverse or slow forward at 1/16,1/8,1/4,1/2,normal speed.
25. **REPEAT**
 • Press REPEAT repeatedly to switch the repeat mode. The specific repeat mode is different according to different disc type.
 DVD : Repeat CH -> Repeat TT ->Repeat All -> Repeat Off
 CD/VCD : Repeat Track -> Repeat All -> Repeat Off
 Playlist : Repeat file -> Repeat Playlist -> Repeat Off
26. **RANDOM**
 • Go to Random/shuffle playback mode:
 Shuffle -> Random -> Normal.
27. **A-B**
 • When a disk is playing,pressing this button once will save a “start point” for repeating playback.Pressing this button again will save an “end point” for repeating playback. Playback will repeat from the start point to the end point.
28. **2nd AUDIO**
 • Open 2nd Audio of 2nd video (PIP’s sub-window video).
29. **PROG.**
 • Edit the program and play.
30. **ZOOM**
 • To zoom in/out.
31. **BOOK MARK**
 • To bookmark at any point during playback.
32. **DIGEST**
 • To access digest playback mode(Video Digest is not available now) .

33. **TOP MENU**
 • To open the Top menu of BD/DVD-Video disc.
34. **BONUS VIEW**
 • Turn on or off the secondary video in a small screen window during play (applicable only to BD-video that supports the BONUSVIEW or Picture-In-Picture feature).
35. **MEDIA CENTER**
 • To open/close Media Center.
36. **OSC**
 • To access On Screen Control menu.
37. **COLOR BUTTONS**
 • Access the red/green/yellow/blue item or page.

Connection

Make the following connections to use this product.

Basic connections:
• Video
• Audio
• Power

Optional connections:
• Route audio to other devices
 • Digital amplifier/receiver
 • Analog stereo system
• LAN
• USB device (As additional memory for software updates and BD-Live bonus contents).

Note

• Refer to the type plate at the back or bottom of the product for identification and supply ratings.
• Before you make or change any connections, ensure that all devices are disconnected from the power outlet.
• Different types of connectors can be used to connect this product, depending on availability and your needs.

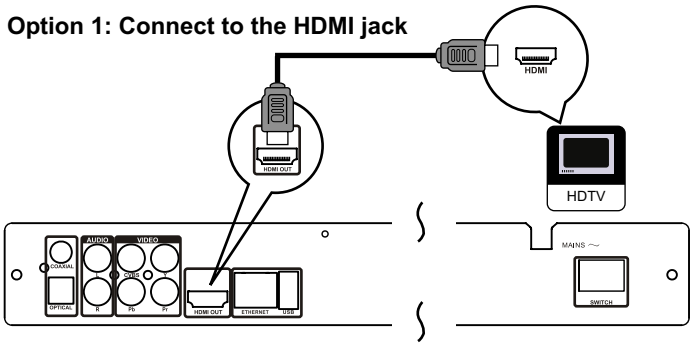
Connect video/audio cables

Connect this product to TV to view disc play. Select the best video connection that the TV can support.
 • Option 1: Connect to the HDMI jack (for a HDMI TV).
 • Option 2: Connect to the component video jacks (for a standard TV or Progressive Scan TV).
 • Option 3: Connect to the composite video jack (for a standard TV).

Note

• You must connect this product directly to a TV.

Option 1: Connect to the HDMI jack

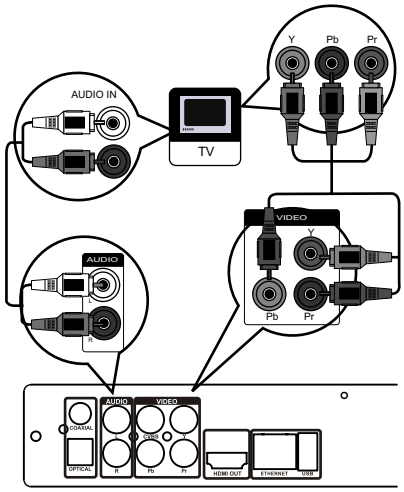


Connect an HDMI cable (not supplied) to:
 • the HDMI jack on this product,
 • the HDMI input jack on the TV.

Tip

• You can optimize the video output. Press the HDMI button repeatedly to select the best resolution the TV can support.
• To play the digital video images of a BD-video or DVD-video via an HDMI connection, it is necessary that both this product and the display device.
• This type of connection provides best picture quality.

Option 2: Connect to the component video jack



1 Connect the component video cables (not supplied) to:
 the Y Pb Pr jacks on this product.
 • the COMPONENT VIDEO input jacks on the TV.
2 Connect the audio cables to:
 • the AUDIO L/R-AV OUTPUT jacks on this product.
 • the AUDIO input jacks on the TV.

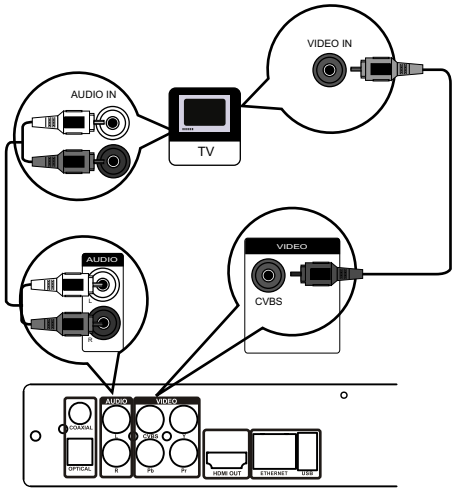
Tip

• The component video input jack on the TV might be labeled as Y Pb/Cb Pr/Cr or YUV.

Note

• This type of connection provides good picture quality.

Option 3: Connect to the composite video jack.



1 Connect a composite video cable to:
• the VIDEO jack on this product, the VIDEO input jack on the TV.
2 Connect the audio cables to
• the AUDIO L/R-AV OUTPUT jacks on this product.
the AUDIO input jacks on the TV.

Tip

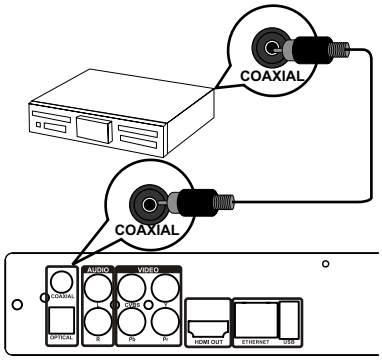
• The video input jack on the TV might be labeled as A/V IN, VIDEO IN, COMPOSITE or BASEBAND.
• This type of connection provides standard picture quality.

Route audio to other devices

To enhance audio play, you can route the audio from this product to other devices.

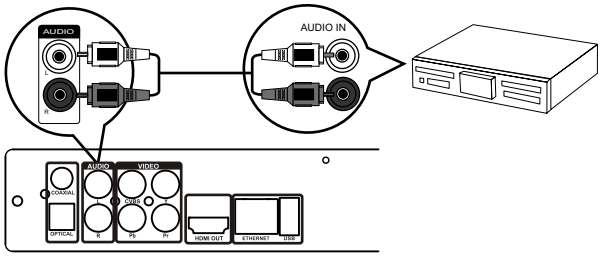
• This type of connection provides good picture quality.

Connect to digital amplifier/receiver



Connect a coaxial cable (not supplied) to:
• the COAXIAL jack on this product.
• the COAXIAL/DIGITAL input jack on the device.

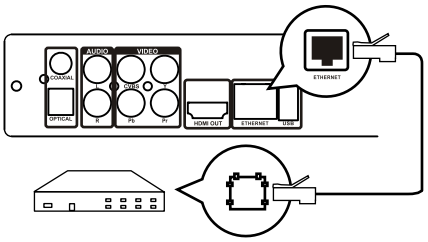
Connect analogue stereo system.



Connect the audio cables to:
• the AUDIO L/R-AV OUTPUT jacks on this product.
• the AUDIO input jacks on the device.

Connect network

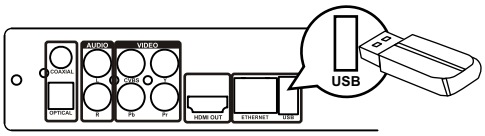
Connect this product to the network to enjoy software updates and BD-Live bonus content.



Connect the network cable (not supplied) to:
• the LAN jack on this product,
• the LAN jack on the broadband modem or router.

Connect USB device

A USB device provides an additional memory to enjoy software updates、 BD-Live bonus content and for media play.



Connect the USB device to the USB jack on this product.

Note

• Connect a USB device only to the USB jack on this product.
• We does not guarantee 100% compatibility with all USB devices.
• If use USB device to play media. Please press MEDIA CENTER.

Connect power

Caution

• Before connecting the AC power cord, ensure you have completed all other connections.

Note

• The type plate is located on the back of the product.

Connect the AC power cable to the wall socket.
This product is ready to be set up for use.

Caution

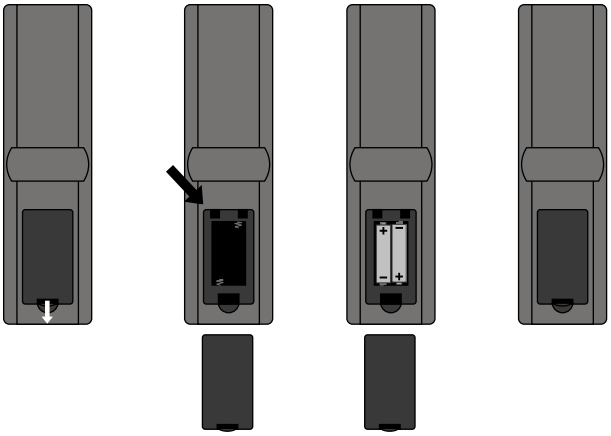
- Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

Always follow the instructions in this chapter in sequence.

Prepare the remote control

Caution

- Risk of explosion! Keep batteries away from heat, sunshine or fire. Never discard batteries in fire.



1 Open the battery compartment.
2 Insert 2xAAA batteries with correct polarity (+/-) as indicated.
3 Close the battery compartment.

Note

- If you are not going to use the remote control for a long time, remove the batteries.
- Do not use old and new or different types of batteries in combination.
- Batteries contain chemical substances, so they should be disposed of properly.

Find the correct viewing channel

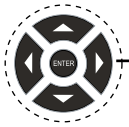
1 Press ⏻ to turn on this product.
2 Turn on the TV and switch to the correct video-in channel (refer to the TV user manual on how to select the correct channel).

Use the SETUP menu

Press **SETUP** to display the SETUP menu on the TV.

Navigate the menu

When a menu is displayed, press the buttons on the remote control to navigate.



Move up or down.
Move left or right.
Confirm a selection.

Select menu display language

Note

- If this product is connected to a HDMI CEC compliant TV, skip this setting. It switches automatically to the same OSD menu language as per your TV setting (if the language set on TV is supported by this product).

1. Select [**General Settings**] in the **SETUP** menu.
2. Press ▲ / ▼ to select [**Language**] in the menu
3. Press ▶ to select [**OSD**], and press ▶again to enter the select menu, then you could select the language you want.
4. Press **ENTER** to confirm.

Play a disc

Caution

- Do not place any objects other than discs into the disc compartment.
- Do not touch the disc optical lens inside the disc compartment.

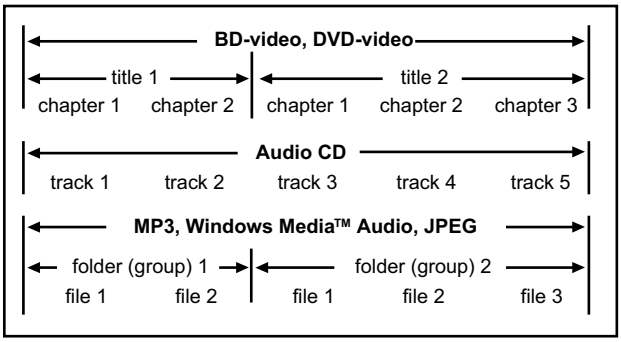
1 Press ⏏ to open the disc compartment.
2 Insert a disc with its label facing up.
3 Press ⏏ to close the disc compartment and start disc play.
- To view disc play, turn on the TV to the correct viewing channel for this product.
- To stop disc play, press ■.

Note

- Check the types of discs supported .
- If the password entry menu is displayed, enter the password before you can play the locked or restricted disc.
- If you pause or stop a disc, the screen saver appears after 3 minutes of inactivity. To deactivate the screen saver, press any button.
- After you pause or stop a disc and no button is pressed within 9 minutes, this product automatically switches to standby.

Disc content structure

The structure of a disc content is generally divided as shown below.



- **[title/chapter]** (title/chapter) refers to the contents on a BD/DVD.
- **[track]** (track) refers to the contents on an audio CD.
- **[folder/file]** (folder/file) refers to the contents on a disc in MP3/WMA/JPEG format.

Play video

Control video play

1 Play a title.
2 Use the remote control to control the play.

Buttons	Action
⏸	Pause play.
▶	Start or resume play.
■	Stop play.
⏮ ⏭	Skip to a previous/next title or chapter.
◀◀ ▶▶	Search fast-backward or fast-forward. Press repeatedly to change the search speed.

- In pause mode, slow a play backward or forward.

Note

- For BD disc with Java application, the resume function is not available.

Display menu

BD-video disc:

TOP MENU stop the video play and shows the disc menu. This feature is disc-dependent. **POP MENU** access to the BD-video disc menu without interrupting disc play.

DVD-video disc:

TOP MENU display the root menu of a disc.

TITLE display disc information and guide you through the available functions in the disc.

VCD/SVCD disc:

POP MENU display the content of the disc.

Tip

- If the PBC setting is off, the VCD/SVCD skips the menu and starts play from the first title. To display the menu before play, turn on the PBC setting by **TOP MENU** button.

Change video play

Button	Action
AUDIO	Select an audio language or channel on a disc.
SUBTITLE	Select the subtitle language on a disc.
REPEAT	Select or turn off repeat or shuffle mode. • Repeat options may vary from the disc type. For VCDs, repeat play is only possible when the PBC mode is turned off.
DISPLAY	Display the current status or disc information.
ZOOM	Zoom in/out the picture of the video.
RANDOM	Select the Random/Shuffle mode.
BOOK	Bookmark the point.

Button	Action
A-B	When a disk is playing, pressing this button once will save a “start point” for repeating playback. Pressing this button again will save an “end point” for repeating playback. Playback will repeat from the start point to the end point. • The marked section for repeat play should be in one track/title.
PROGRAM	Edit the program and play.
GOTO	Jump to a user specified time during playback.
BONUSVIEW	Turn on or off the secondary video in a small screen window during play (applicable only to BD-video that supports the BONUSVIEW or Picture-In-Picture feature).
2nd ADUIO	Switch over the audio displaying between mains window or PIP window.
OSC	Access options relating to the current activity or selection, and control the video playing.

Note

- Some operations may not work with some discs. See the information accompanying the disc for details.
- Applicable only to discs that contain multi-angle scenes.

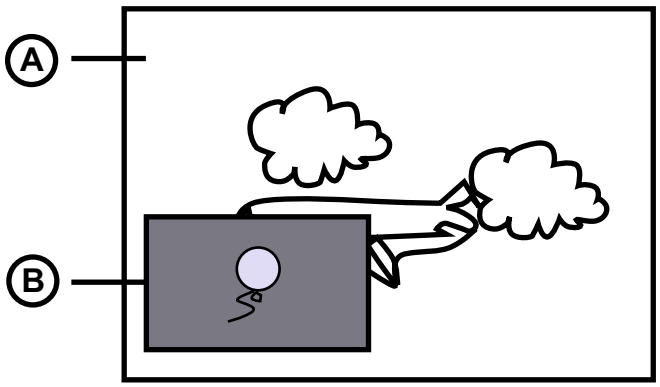
Play BD-video

Blu-ray video disc has a larger capacity and supports features such as high-definition videos, multichannel surround sounds, interactive menus and so on.

1 Insert a BD-video disc.
2 Play automatically starts, or select a play option in the menu and press **ENTER**.
- During play, you can press **TOP MENU** to display additional information, features or content stored in the disc.
- During play, you can press **POP MENU** to display the disc menu without interrupting disc play.

Enjoy BONUSVIEW

(Applicable only to a disc compatible with the BONUSVIEW or Picture-in-Picture feature) You can instantly view additional content (such as commentaries) in a small screen window.



(A) Primary video
(B) Secondary video

1 Press **BONUSVIEW** to turn on the secondary video window.
2 Press **2nd AUDIO** to switch over the audio between mains window and PIP window.

Enjoy BD-LIVE

(Applicable only to a disc that enables BD-Live bonus content.) Additional contents (such as movie trailers, subtitles, etc.,) can be downloaded to this product's local storage or a connected USB storage device. Special video data may be played while they are being downloaded. When the disc supporting BD-Live is played, this product or disc's ID can be sent to the content provider via the internet. Services and functions to be provided vary from discs.

Note

- It is recommended to use a USB with download data (at least 1GB free space).

Play music

Control a track

1 Play a track.
2 Use the remote control to control the play.

Buttons	Action
❙❙	Pause play.
▶	Start or resume play.
■	Stop play.
⏮ ⏭	Skip to a previous/next track.
1 2 3 4 5 6 7 8 9 0	Select an item to play.
◀◀ ▶▶	Search fast-backward or fast-forward. Press repeatedly to change the search speed.
REPEAT	Select or turn off repeat or shuffle mode.

Play MP3/WMA music

MP3/WMA is a type of highly compressed audio file (files with mp3, .wma extensions).

1 Insert a disc that contains the MP3/WMA music.
2 Select a muisc folder, then press **ENTER**.
3 Select a file to play, then press **ENTER**.

Note

• Press **MEDIA CENTER** to display the file list.

Note

• For disc recorded in multiple sessions, only the first session is played.
• For a WMA file that is protected by Digital Rights Management (DRM), it cannot be played on this product.
• This product does not support MP3PRO audio format.
• For any special character that is present in the MP3 track name (ID3) or album name, it might not be displayed correctly on the screen because these characters are not supported.
• Folders/files that exceed the supported limit of this product cannot be displayed or played.

Play photo

Play photo as slideshow

You can play JPEG photos (files with .jpeg or .jpg extensions).

1 Insert a disc or USB devise that contains the JPEG photos.
2 Select a photo folder, then press **ENTER** to enter.
  • To select a photo, press the **Navigation** buttons.
  • To enlarge the selected photo and start slideshow, press **ENTER**.

Note

• It may require longer time to display the disc content on the TV due to the large number of songs/photos compiled onto one disc.
• This product can only display digital camera pictures according to the JPEG-EXIF format, typically used by almost all digital cameras. It cannot display Motion JPEG, or pictures in formats other than JPEG, or sound clips associated with pictures.
• Folders/files that exceed the supported limit of this product cannot be displayed or played.

Control photo play

1 Play a photo slideshow.
2 Use the remote control to control the play.

Buttons	Action
◄ ►	Rotate a photo anticlockwise/clockwise.
▲ ▼	Flip a photo horizontally/vertically.
■	Stop play.

Note

• Some operations may not work with some discs or files.

Set slideshow interval and animation

1 During play, press **OSC**.
  The play options menu is displayed.
2 Select a option in the menu, then press **ENTER**.
3 Select the option by **Navigation** buttons.
4 Press **ENTER**.

Play musical slideshow

Create a musical slideshow to play simultaneously MP3/WMA music files and JPEG photo files.

Note

• To create a musical slideshow, you must store the MP3/WMA and JPEG files on the same disc.

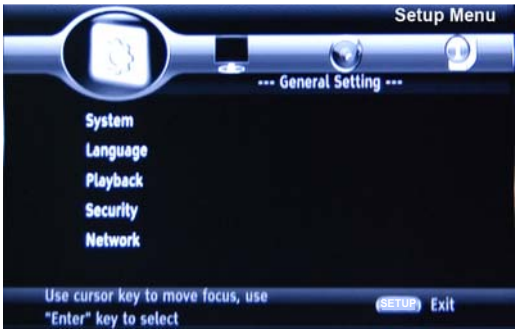
1 Play MP3/WMA music.
2 Press **Media Center** to return to the main menu.
3 Navigate to enter a photo folder, then press **ENTER** to start slideshow play.
  Slideshow begins and continues till the end of the photo folder.
  Audio continues to play until the end of the disc.
• To stop the slideshow play, press ■.
• To stop the music play, press ■ again.

Note

• If the setup option is grayed out, it means the setting cannot be changed at the current state.

Basic operation for the menu

1 Press **SETUP**.
2 Select a mains menu by ◀ ▶.



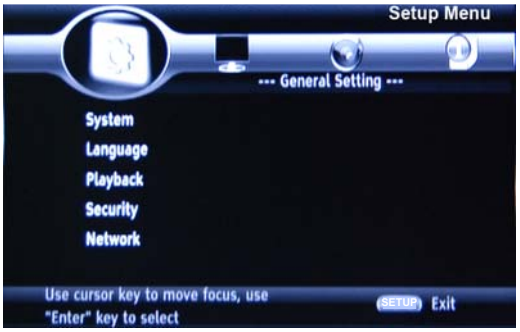
3 Select the menu you want to setting by ▼ ▲, and press ▶.
• You could press ▲ up to mains menu.

4 Select the option by ▼ ▲, and press ▶.
• You could press ◀ to return to the previous menu.

5 Select by ▼ ▲, and press **ENTER** to confirm.
• You could press ◀ to return to the previous menu.

6 To return to the mains menu from the submenu, press **RETURN**.
7 To exit the menu, press **SETUP**.

General Setting



System

1 **Screen Saver:** Turn on/off the sceen saver.
The screen saver will display in 3 mins without any operation when the function's on.
2 **Disc Auto Playback:** Turn on/off the disc auto playback function.
3 **CEC:** Turn on/off the CEC function.
The settings in TV will be changed as the DVD change when the function's on.
4 **Load Default:** Return to defaultsettings.
5 **Upgrade:** Select the device that you want to upgrade from.
6 **Easy Setup**: Make default settings fast.
7 **BUDA**: Difine memary for BD-Live.

Language

1 **OSD:** Select the OSD language.
2 **Menu:** Select the menu language of the disc.
3 **Audio:** Select the audio language for the program.
4 **Subtitle:** Select the subtitle language for the program.

Note

• You have to select the audio and subtitle language according to the disc.

Playback

1 **Closed Caption:** Turn on/off the Closed Caption function.
2 **Angle Mark:** Turn on/off the Angle Mark function.
3 **PIP Mark:** Turn on/off the PIP Mark function.
4 **Secondary Audio...:** Turn on/off the secondary audio language select.
5. **Last Memory:** Turn on/off the Last Memory function.
6. **PBC**: PBC on/off only for VCD.

Security

1 **Change Password:** Change the password for parental control menu.
2 **Parental Control:** Enter to set the parental control.
3 **Country Code:** Select the Country code.

Note

• The original code is 0000.

Network

• Connect this product to the broadband modem or router.
• This product starts to detect if there is a connection to the network.
• If the connection test fails, select [**Retry**] and press **ENTER** to re-connect again to the network.

1 **Internet Connection:** Display the internet connection state.
2 **Information:** Display the informations of the Network.
3 **Connection Test:** Test the internet connection state.
4 **IP Setting:** Setting the IP for the product.
5 **Host Name Setting:** Setting the name for the product.
6 **BD-Live Connection**: Connection situation of BD-Live.
7 **Proxy Setting**: Setup proxy server.

Display Setting

TV

1 **TV Screen:** Select the display mode for the TV.
2 **Resolution:** Select the resolution for the TV.
3 **TV System:** Select the TV system.
4 **Color Space:** Select the color space.
5 **HDMI Deep Color:** Select deep color for HDMI.
6 **HDMI 1080p 24Hz**: Enable/disable HDMI 1080P 24Hz setting.

Video Process

1 **Video Adjust:** Enter the submenu to adjust the video display.

Adjust the Brightness, Contrast, Hue, Saturation of the screen for yourself.

2 **Sharpness:** Select the sharpness mode.

Audio Setting

Audio Output

1 **Spdif:** Select the spdif mode.
2 **HDMI:** Select the HDMI mode.
3 **Down_samp:** Select down_samp.
4 **DRC:** Select the DRC mode.

Speaker Setting

Configuration: Select configuration mode.

System Information

Setup Menu
--- System Information ---
Software Version : BDP-01-004
MAC : 00 -00 -00 -00 -25 -9D
Use cursor key to move focus, use "Enter" key to select
SETUP Exit

Display the system information(The information on the picture above is for reference only).

Update software

For software updates to enhance performance, check the current software version of this product to compare with the latest software (if available) .

1 Press **SETUP**.
2 Select [**General Setting**], then press ▶.
3 Select [**System**] > [**Upgrade**], then press **ENTER.**

Update software via USB

1 Download the software onto a USB flash drive.
2 Insert the USB flash drive to the USB jack of the rear panel.
3 In the SETUP menu, select[**General Setting**] >[**System**] > [**Upgrade**] > [**USB**].
4 Follow the instructions on the TV screen to confirm update operation.
Once software update is complete, this product automatically turns off to standby.
6 Disconnect the power cord for a few second; and connect again to turn on this product.

Note

• Do not turn off the power or remove the USB flash drive when software updating is in progress to prevent possible damage of this product.

Care

Caution

• Never use solvents such as benzene, thinner, cleaners available commercially, or anti-static sprays intended for discs.

Clean discs

Wipe the disc with a micro fibre cleaning cloth from the centre to the edge in a straight line movement.

Specifications

Note

• Specification and design are subject to change without notice

Play media

DVD-Video, DVD+R/+RW, DVD-R/-RW, DVD+R/-R DL, CD-R/CD-RW, Audio CD, Video CD/SVCD, Picture CD, MP3, WMA.

Accessories supplied

• Remote control and batteries
• Audio/Video cables
• User manual

Video

• Signal system: PAL / NTSC
• Composite video output: 1 Vp-p (75 ohm)
  • Y: 1 Vp-p (75 ohm)
  • Pb: 0.7 V-pp (75 ohm)
  • Pr: 0.7 V-pp (75 ohm)
• HDMI / Component video output: Auto, 480i/576i, 480/576p,720p, 1080i. 1080p, 576p, 720p, 1080i, 1080p, 1080p24.

Audio

• 2 Channel analog output
  • Audio Front L&R: 2 Vrms (> 1 kohm)
• Digital output: 0.5-Vp-p (75 ohm)
  • Coaxial
• HDMI output
• Sampling frequency:
  • MP3: 32 kHz, 44.1 kHz, 48 kHz
  • WMA: 44.1 kHz, 48 kHz
• Constant bit rate:
  • MP3:112 kbps - 320 kpbs
  • WMA:48kpbs-192kpbs

USB

• As additional memory for software updates and BD-Live bonus contents.

Main unit

• Power supply rating: 100-240V AC, 50/60Hz
• Power consumption: 25W
• Power consumption in standby mode: <1W
• Dimensions (w x h x d): 430 x 45 x 250 (mm)
• Net Weight: 2.4 kg

Laser Specification

• Laser Type:
  • BD Laser Diode: InGaN/AIGaN
  • DVD Laser Diode: InGaAlP
  • CD Laser Diode: A IG'aAs
• Wave length:
  • BD: 405 +5nm/-5nm
  • DVD: 650 +13nm/-10nm
  • CD:790+15nm/-15nm
• Output power:
  • BD: Max. ratings: 20mW
  • DVD: Max. ratings: 7mW
  • CD: Max. ratings: 7mW

Warning

• Risk of electric shock. Never remove the casing of the product.

To keep the warranty valid, never try to repair the product yourself.

Main unit

No reaction to the remote control.

• Connect this product to the power outlet.
• Point the remote control at the IR sensor located on the front panel of this product.
• Insert the batteries correctly.
• Insert new batteries in the remote control.

Picture

No picture.

• See TV manual for correct video input channel selection. Change the TV channel until you see the screen.

No picture on HDMI connection.

• If this product is connected to an unauthorized display device with an HDMI cable, the audio/video signal may not be output.
• Check if the HDMI cable is faulty. Replace a new HDMI cable.
• If this happens when you change the [resolution] setting, press HDMI on the remote control repeatedly until picture appears.

No high-definition video signal on the TV.

• Ensure that the disc contains high-definition video.
• Ensure that the TV supports high-definition video.

Sound

No audio output from the TV.

• Ensure that the audio cables are connected to the audio input of the TV.
• Assign the audio input of the TV to the corresponding video input. See the TV user manual for details.

No audio output from the loudspeakers of the audio device (stereo system/amplifier/receiver).

• Ensure that the audio cables are connected to the audio input of the audio device.
• Turn on the audio device to its correct audio input source.

No sound on HDMI connection.

• You may not hear any sound from the HDMI output if the connected device is non-HDCP compliant or only DVI-compatible.

Play

Disc cannot be played.

• Ensure that the disc is correctly loaded.
• Ensure that this product supports the disc. See 'Specifications'.
• Ensure that this product supports the region code of the DVD or BD.
• For DVD+RW or DVD+R, ensure that the disc is finalized.
• Clean the disc.

Data files (JPEG, MP3, WMA) cannot be played or read.

• Ensure that the data file was recorded in the UDF, ISO9660 or JOLIET format.
• Ensure that the selected group (folder) does not contain more than 9,999 files for DVD, and 999 files for CD.
• Ensure that the JPEG file extention is .jpg, .JPG, .jpeg or .JPEG.
• Ensure that the MP3/WMA file extension is .mp3 or .MP3, and .wma or .WMA for windows Media™ Audio.

'No entry' sign appears on the TV.

• The operation is not possible.

Unable to access BD-Live feature.

• Check the network connection or ensure that the network has been set up.
• Clear local storage or USB.
• Ensure that the BD disc supports BD Live feature.

A

Aspect ratio

Aspect ratio refers to the length to height ratio of TV screens. The ratio of a standard TV is 4:3, while the ratio of a high-definition or wide TV is 16:9. The letter box allows you to enjoy a picture with a wider perspective on a standard 4:3 screen.

B

Blu-ray Disc (BD)

Blu-ray Disc is a next generation optical video disc capable of storing five times more data than a conventional DVD. The large capacity makes it possible to benefit from the features such as high-definition videos, multichannel surround sound, interactive menus and so on.

BONUSVIEW

This is a BD-Video (Final Standard Profile or Profile 1.1) that supports interactive content encoded on the disc, such as picture-in-picture. This means you can play the primary video and secondary video simultaneously.

D

Digital Audio

Digital Audio is a sound signal that has been converted into numerical values. Digital sound can be transmitted through multiple channels. Analogue sound can only be transmitted through two channels.

Dolby Digital

A surround sound system developed by Dolby Laboratories that contains up to six channels of digital audio (front left and right, surround left and right, center and subwoofer.)

DTS

Digital Theatre Systems. A surround sound system for providing 5.1 channels of discrete digital audio in consumer electronics products and software content. It is not developed by Dolby Digital.

H

HDCP

High-bandwidth Digital Content Protection. This is a specification that provides a secure transmission of digital contents between different devices (to prevent unauthorized copyright.)

HDMI

High-Definition Multimedia Interface (HDMI) is a high-speed digital interface that can transmit uncompressed high definition video and digital multichannel audio. It delivers high quality picture and sound quality, completely free from noise.
HDMI is fully backward-compatible with DVI. As required by the HDMI standard, connecting to HDMI or DVI products without HDCP (High-bandwidth Digital Content Protection) will result in no Video or Audio output.

J

JPEG

A very common digital still picture format. A still-picture data compression system proposed by the joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio. Files are recognized by their fill extension '.jpg' or '.jpeg.'

L

LAN (Local Area Network)

A group of linked devices in a company, school or home. Indicates the boundaries of a particular network.

Local storage

This storage area is used as destination for storing additional contents from BD-Live enabled BD-Video.

M

MP3

A file format with a sound data compression system. MP3 is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. With the MP3 format, one CD-R or CD-RW can contain about 10 times more data than a regular CD.

P

PBC

Playback Control. A system where you navigate through a Video CD/Super VCD with on-screen menus that are recorded onto the disc. You can enjoy interactive playback and search.

PCM

Pulse Code Modulation. A digital audio encoding system.

R

Region code

A system that allows discs to be played only in the region designated. This unit only plays discs that have compatible region codes. You can find the region code of your unit on the product label. Some discs are compatible with more than one region (or ALL regions.)

W

WMA

Windows Media™ Audio. Refers to an audio compression technology developed by Microsoft Corporation. WMA data can be encoded with Windows Media player version 9 or Windows Media player for Windows XP. Files are recognized by their file extension '.wma.'